

## URS FOR MEE

### PROCESS AND UTILITY

FEED RATE TO MEE (kg/hr)

SOLID PERCENTAGE IN FEED

OPERATING PRESSURE MEE (mmhg)

CONCENTRATE RATE FROM MEE (kg/hr)

CONDENSATE RATE FROM MEE (kg/hr)

STEAM CONSUMPTION REQUIRED FOR MEE (kg/hr)

COOLING WATER REQUIRED FOR MEE (m3/hr)

POWER CONSUMPTION MEE (kw)

### MOC

CALANDRIAS

SHELL

TUBES

PRE HEATER

SHELL

TUBES

CONDENSER

SHELL

TUBES

PUMPS

CONTACT PARTS

NON CONTACT PARTS

VACUUM PUMP

CONTACT PARTS

NON CONTACT PARTS

VAPOR DUCT

THERMAL VAPOR COMPRESSOR

CIP TANK

INTER CONNECTING PIPING MEE

## PUMPS QUANTITY

FEED PUMP

CONDENSATE TRANSFER PUMP

CONCENTRATE TRANSFER PUMP

CALANDRIA RECIRCULATION PUMP

SEAL COOLING PUMP

VACUUM PUMP

CIP PUMP

## PUMPS CAPACITY

MEE FEED PUMP (m<sup>3</sup>/hr)

FIRST EFFECT RECIRCULATION PUMP (m<sup>3</sup>/hr)

SECOND EFFECT RECIRCULATION PUMP (m<sup>3</sup>/hr)

THIRD EFFECT RECIRCULATION PUMP (m<sup>3</sup>/hr)

FOURTH EFFECT RECIRCULATION PUMP (m<sup>3</sup>/hr)

MEE CONDENSATE TRANSFER PUMP (m<sup>3</sup>/hr)

MEE ONCENTRATE TRANSFER PUMP (m<sup>3</sup>/hr)

## MAIN EQUIPMENT

CIP TANK (kl)

SEAL COOLING TANK WITH COOLER

## INSTRUMENTATION

MEE FEED FLOW METER

MEE CONDENSATE FLOW METER

STEAM FLOW METER FOR MEE

RTD FOR MEE CONDENSER

RTD IN VAPOR LINE FOR EACH EFFECT

RTD FOR CONCENTRATE LINE FOR EACH EFFECT

RTD FOR FIRST EFFECT CALANDRIA JACKET

PRE HEATED FEED INLET TEMPERATURE RTD TO MEE

VACUUM TRANSMITTER

CONDUCTIVITY TRANSMITTER

FEED LOGIC CONTROL TO MEE

PLC SCAD

SRV FOR JACKET SIDE FIRST EFFECT CALANDRIA

INSTRUMENTATION CABLING WITH CABLE TRAY

**ELECTRICAL CABLING WITH CABLE TRAY**

**STRUCTUARAL SKID**

**CALANDRIA TUBE THICKNESS (mm)**

**CALANDRIA TUBE LENGTH (m)**

**CALANDRIA SHELL THICKNESS (mm)**

**LIQUID VELOCITY IN CALANDRIA TUBES (m/s)**

**HEAT TRANSFER AREA FOR MEE (m<sup>2</sup>)**

**REMARKS**

please write specification

